AD-A082 969 ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
193088 MLRS, MISSILE NUMBER 1125, ROUND NUMBER V-98, 11 DECEMBE--ETC(U)
DEC 79

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CONTENTS

	PAGE
INTRODUCTION	1
DISCUSSION	1
TABLES:	
1. Surface Observations taken at 1532 MST at NW 30	2
2. D 3½ Pilot Balloon Measured Wind Data at 1535 MST	3
3. DENVER Pilot Balloon Measured Wind Data at 1548 MST	4
4. NW 30 Significant Level Data at 1532 MST	5
5. NW 30 Upper Air Data at 1532 MST	7
6. NW 30 Mandatory Levels at 1532 MST	11

INTRODUCTION

19308B MLRS, Missile Number 1125, Round Number V-98, was launched from BRILLO, White Sands Missile Range (WSMR), New Mexico, at 1532:01 MST on 11 December 1979. The scheduled launch time was 1500 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team. Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature (^{o}C), relative humidity, dew point (^{o}C), density (gm/m^3), Wind direction and speed, and cloud cover were made at the D 3½ Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE	
D 3½	2km
DENVER	2km

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 67,000 feet in 500-feet increments.

SITE AND TIME
NW 30 1532 MST

TABLE 1. Surface Observations taken at 1532 MST, 11 December 1979, at NW 30, 19308B MLRS, Missile Number 1125, Round Number V-98.

ELEVATION	4010.40	FT/MSL
PRESSURE	872.5	MBS
TEMPERATURE	18.9	^{o}C
RELATIVE HUMIDITY	25	%
DEW POINT	-1.6	^{o}C
DENSITY	1036.4	GM/M^3
WIND SPEED	12	KTS
WIND DIRECTION	250	DEGREES
CLOUD COVER	8	Sc

PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM D 3½ DATE 11 December 1979 TIME 1535 MST

TRACKER COORDINATES (WSTM) X= 443,018.90 Y= 338,189.24 H 3974.89

NOTE: WIND DIRECTIONS ARE REFERENCED TO **TRUE NORTH.**

HEIGHTS ARE METERS AGL XX OR FEET AGL ____.

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	205	05
90	220	12
150	253	18
210	206	14
270	214	11
330	209	10
390	199	09
500	209	08
650	212	11
800	225	15
950	230	16
1150	229	14
1350	228	16
1550	231	13
1750	231	15
2000	235	18

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM DENVER SITE DATE 11 December 1979 TIME 1548 MST

TRACKER COORDINATES (WSTM) X= 499,064.03 Y= 493.904.12 H 4123.10

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL XX OR FEET AGL ____.

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	110	15
90	095	14
150	175	23
210	177	24
270	177	25
330	184	25
390	191	24
500	198	24
650	204	23
800	205	21
950	217	22
1150	223	24
1350	226	25
1550	231	25
1750	237	25
2000	237	27

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

STATION ALTITUDE 4010.40 FEET MSL
11 DEC. 79 1532 MRS MST
ASCENSION NO. 18

SIGNIFICANT LEVEL DATA
34502+0015
NM 30

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

TABLE 4

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT
872.5	4010.4	18.9	-1.5	25.0
862.2	4345.3	19.2	7.6	47.0
850.0	4746.7	18.6	1.1	32.0
827.4	5499.3	14.7	-.6	35.0
758.2	8614.6	5.4	-5.9	44.0
700.0	10031.5	1.6	-12.9	33.0
637.4	12838.4	-3.5	-17.1	34.0
609.2	13658.4	-6.1	-16.4	37.0
599.8	14058.1	-6.8	-16.7	45.0
590.6	14454.2	-7.6	-18.6	40.0
572.8	15234.5	-9.5	-20.0	42.0
555.2	16024.5	-11.5	-18.1	58.0
521.6	17589.9	-14.4	-24.7	41.0
513.4	17984.6	-15.0	-22.4	53.0
500.0	18641.9	-15.6	-24.3	47.0
489.4	19172.5	-16.8	-25.9	49.0
479.1	19697.0	-18.0	-18.1	99.0
451.0	21177.8	-20.2	-20.3	99.0
400.0	24064.4	-27.2	-27.3	99.0
394.2	24410.4	-27.7	-27.8	99.0
367.6	26037.5	-31.7	-37.2	58.0
311.5	29324.4	-41.8	-44.6	74.0
307.0	30105.3	-42.1	-45.6	68.0
300.0	30660.9	-43.0	-47.1	68.0
291.0	31332.6	-45.4	-49.5	63.0
259.6	33906.5	-51.6		
250.0	34610.2	-52.5		
225.0	36755.1	-53.2		
217.0	37518.3	-52.6		
203.0	39350.6	-53.4		
183.0	41223.2	-54.9		
171.2	42630.9	-55.4		
150.0	45394.2	-57.9		
134.8	47591.9	-62.4		
121.6	49673.4	-65.7		
111.8	51358.6	-65.4		
108.6	51941.1	-65.7		
100.0	53604.1	-63.4		
78.4	58532.0	-63.9		
70.0	60798.3	-69.5		

STATION ALTITUDE 4010.40 FEET MSL
11 DEC. 79 1532 HRS MST
ASCENSION NO. 18

SIGNIFICANT LEVEL DATA
34502.0018
NW 30

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

TABLE 4 (CONT)

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT
56.8	64906.3	-69.9		
53.2	66215.7	-63.0		
50.0	67487.1	-59.7		

STATION ALTITUDE 4010.40 FEET MSL
11 DEC. 79 1532 HRS MST
ASCENSION NO. 18

UPPER AIR DATA
345022001G
NM 30

GEODETIC COORDINATES
32.06497 LAT DEG
106.49714 LON DEG

TABLE 5

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4010.4	872.5	18.9	-1.5	25.6	1036.3	666.6	250.0	12.0	1.000256
4500.0	857.5	18.7	5.3	41.2	1019.4	666.9	230.4	12.5	1.000267
5000.0	842.5	16.9	.5	33.0	1003.6	664.4	227.6	13.4	1.000253
5500.0	827.4	14.7	-.6	35.0	993.6	661.6	218.6	14.7	1.000249
6000.0	812.4	13.2	-1.4	36.4	985.7	660.1	215.0	14.8	1.000245
6500.0	797.6	11.7	-2.2	37.9	973.0	658.3	215.2	13.5	1.000241
7000.0	783.2	10.2	-3.0	39.3	960.5	656.0	212.1	11.9	1.000237
7500.0	769.1	8.7	-3.8	40.8	948.2	654.8	206.3	10.3	1.000233
8000.0	755.0	7.2	-4.7	42.2	936.0	653.0	205.2	11.0	1.000229
8500.0	741.3	5.7	-5.6	43.7	924.1	651.3	207.7	11.8	1.000225
9000.0	727.8	4.4	-7.7	41.0	911.7	649.6	214.3	12.8	1.000220
9500.0	714.1	3.0	-10.2	37.1	899.4	647.9	222.2	14.3	1.000214
10000.0	700.8	1.7	-12.7	33.2	887.2	646.2	229.3	16.1	1.000209
10500.0	687.6	.6	-13.7	33.2	873.9	645.0	235.9	18.8	1.000205
11000.0	674.6	-.4	-14.5	33.4	860.7	643.7	241.6	21.4	1.000202
11500.0	661.9	-1.4	-15.4	33.6	847.7	642.5	247.4	24.0	1.000198
12000.0	649.4	-2.5	-16.2	33.8	835.0	641.2	251.9	26.1	1.000195
12500.0	637.1	-3.5	-17.1	34.0	822.4	640.0	255.6	28.0	1.000192
13000.0	624.9	-4.6	-17.6	35.3	810.0	638.7	256.7	29.2	1.000188
13500.0	612.9	-5.7	-18.2	36.6	797.8	637.5	256.7	29.9	1.000185
14000.0	601.2	-6.7	-16.4	43.8	785.2	636.2	254.1	29.5	1.000184
14500.0	589.5	-7.7	-18.9	40.1	773.0	635.0	251.7	28.9	1.000180
15000.0	578.1	-8.9	-19.6	41.4	761.0	633.5	249.0	27.9	1.000177
15500.0	566.8	-10.2	-19.2	47.4	750.2	632.0	247.4	27.8	1.000174
16000.0	555.7	-11.4	-19.1	57.5	739.0	630.6	245.1	28.4	1.000173
16500.0	544.8	-12.4	-20.0	52.8	727.1	629.4	241.8	30.8	1.000169
17000.0	534.0	-13.3	-22.1	47.4	715.4	628.2	239.1	33.0	1.000165
17500.0	523.5	-14.2	-24.3	42.0	703.9	627.1	237.9	36.3	1.000162
18000.0	513.1	-15.0	-22.4	52.9	691.9	626.2	237.1	39.3	1.000160
18500.0	502.9	-15.5	-23.9	48.3	679.4	625.0	236.8	42.8	1.000156
19000.0	492.8	-16.4	-24.7	48.3	668.3	624.4	236.6	45.4	1.000154
19500.0	482.9	-17.5	-28.1	50.2	657.6	623.1	236.4	46.7	1.000154
20000.0	473.2	-18.5	-19.6	99.0	646.5	622.1	236.4	47.6	1.000152
20500.0	463.7	-19.2	-19.3	99.0	635.3	621.2	236.7	48.6	1.000149
21000.0	454.3	-19.9	-20.1	99.0	624.3	620.2	237.1	49.4	1.000146
21500.0	445.0	-21.0	-21.1	99.0	614.2	619.9	237.4	50.4	1.000144
22000.0	435.8	-22.2	-22.3	99.0	604.5	617.4	237.7	51.0	1.000141
22500.0	426.9	-23.4	-23.5	99.0	595.0	615.9	237.9	50.6	1.000138
23000.0	418.1	-24.6	-24.7	99.0	585.6	614.4	238.2	50.2	1.000135
23500.0	409.5	-25.8	-25.9	99.0	576.4	612.9	239.0	50.5	1.000133

STATION ALTITUDE 4010.40 FEET MSL
11 DEC. 79 1532 HRS MST
ASCENSION NO. 18

UPPER AIR DATA
3450220018
NW 30

GEODETIC COORDINATES
32.68497 LAT DEG
106.49714 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
24000.0	401.1	-27.0	-27.2	99.0	567.4	611.4	259.8	50.9	1.000130
24500.0	392.7	-27.9	-29.3	96.7	557.5	610.2	258.7	51.9	1.000128
25000.0	384.4	-29.1	-31.0	94.1	548.6	608.7	257.0	53.1	1.000125
25500.0	376.3	-30.4	-33.8	71.5	539.8	607.1	254.6	54.4	1.000122
26000.0	368.4	-31.6	-36.9	58.9	531.2	605.5	251.8	55.6	1.000120
26500.0	360.4	-32.9	-38.0	60.0	522.6	603.9	249.5	56.7	1.000118
27000.0	352.6	-34.3	-39.0	62.1	514.1	602.2	247.9	57.5	1.000116
27500.0	344.9	-35.6	-39.9	64.2	505.8	600.5	247.1	58.3	1.000114
28000.0	337.5	-36.9	-40.9	66.3	497.6	598.8	247.5	59.1	1.000112
28500.0	330.1	-38.3	-41.9	68.4	489.6	597.1	248.1	60.2	1.000110
29000.0	323.0	-39.6	-42.9	70.5	481.7	595.4	249.3	61.5	1.000108
29500.0	316.0	-40.9	-43.9	72.6	473.9	593.7	250.0	62.5	1.000106
30000.0	309.1	-42.8	-45.2	70.2	466.7	592.4	250.5	63.4	1.000104
30500.0	302.2	-43.2	-46.6	68.0	457.7	590.8	250.8	63.1	1.000103
31000.0	295.4	-44.5	-48.3	65.5	450.1	589.1	251.0	62.5	1.000101
31500.0	288.8	-45.8	-50.5	58.7**	442.5	587.4	250.9	61.8	1.000099
32000.0	282.2	-47.1	-53.7	46.0**	434.8	585.8	250.8	61.2	1.000097
32500.0	275.7	-48.5	-57.5	33.3**	427.2	584.1	250.5	63.3	1.000095
33000.0	269.4	-49.6	-62.3	20.5**	419.8	582.5	250.2	65.9	1.000094
33500.0	263.3	-50.8	-70.2	7.8**	412.6	580.9	250.0	71.4	1.000092
34000.0	257.3	-51.8			404.9	579.6	251.0	77.6	1.000090
34500.0	251.3	-52.4			396.5	578.9	251.9	82.9	1.000088
35000.0	245.5	-52.6			387.8	578.5	252.9	87.7	1.000086
35500.0	239.7	-52.8			379.0	578.3	253.8	90.1	1.000084
36000.0	234.2	-53.0			370.5	578.1	254.7	90.1	1.000083
36500.0	228.7	-53.1			362.1	577.9	255.2	89.1	1.000081
37000.0	223.4	-53.1			353.7	577.9	255.5	87.6	1.000079
37500.0	218.2	-52.9			345.1	578.2	255.2	86.3	1.000077
38000.0	213.1	-52.9			337.2	578.1	254.8	85.1	1.000075
38500.0	208.2	-53.1			329.6	577.9	254.5	86.2	1.000073
39000.0	203.3	-53.3			322.2	577.7	254.3	87.7	1.000072
39500.0	198.6	-53.5			315.0	577.4	254.5	90.9	1.000070
40000.0	193.9	-53.9			308.2	576.8	254.8	93.9	1.000069
40500.0	189.4	-54.3			301.5	576.3	255.0	94.7	1.000067
41000.0	185.0	-54.7			295.0	575.8	255.2	95.6	1.000066
41500.0	180.7	-55.0			288.5	575.4	255.8	94.6	1.000064
42000.0	176.4	-55.2			281.9	575.2	256.5	93.4	1.000063
42500.0	172.3	-55.4			275.5	574.9	257.7	90.8	1.000061
43000.0	168.2	-55.7			269.5	574.4	258.9	88.1	1.000060
43500.0	164.2	-56.2			263.7	573.8	259.7	84.5	1.000059

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4010.40 FEET MSL
11 DEC. 79 1532 MDT MST
ASCENSION NO. 16

UPPER AIR DATA
345022001G
NP 30

GEODETIC COORDINATES
32.80497 LAT DEG
106.49714 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
44000.0	160.3	-56.6			258.0	573.2	240.4	81.1	1.000057
44500.0	156.6	-57.1			252.4	572.6	240.7	78.1	1.000056
45000.0	152.9	-57.5			247.0	572.0	241.0	75.2	1.000055
45500.0	149.2	-58.1			241.6	571.3	241.3	73.5	1.000054
46000.0	145.6	-59.1			237.1	569.9	241.7	71.7	1.000053
46500.0	142.1	-60.2			232.5	568.6	242.3	69.8	1.000052
47000.0	138.7	-61.2			225.0	567.2	243.0	67.8	1.000051
47500.0	135.4	-62.2			223.6	565.8	244.5	65.8	1.000050
48000.0	132.1	-63.0			219.0	564.7	246.1	64.0	1.000049
48500.0	128.9	-63.3			214.5	563.6	247.3	64.3	1.000048
49000.0	125.7	-64.6			210.0	562.6	248.5	64.5	1.000047
49500.0	122.6	-65.4			205.7	561.5	249.0	64.1	1.000046
50000.0	119.6	-65.6			200.8	561.2	249.4	63.3	1.000045
50500.0	116.7	-65.6			195.8	561.3	249.5	60.5	1.000044
51000.0	113.8	-65.5			190.9	561.4	249.6	57.8	1.000043
51500.0	111.0	-65.5			186.2	561.4	249.4	55.0	1.000041
52000.0	108.3	-65.6			181.8	561.2	249.2	52.9	1.000040
52500.0	105.6	-64.9			176.7	562.2	249.0	52.1	1.000039
53000.0	103.0	-64.2			171.8	563.1	248.8	51.6	1.000038
53500.0	100.5	-63.5			167.1	564.0	248.6	52.1	1.000037
54000.0	98.1	-63.4			162.9	564.2	248.1	53.3	1.000036
54500.0	95.7	-63.5			159.0	564.1	248.5	57.4	1.000035
55000.0	93.3	-63.5			155.1	564.0	248.1	60.8	1.000035
55500.0	91.1	-63.6			151.4	564.0	249.7	60.6	1.000034
56000.0	88.8	-63.6			147.7	563.9	244.2	60.8	1.000033
56500.0	86.7	-63.7			144.2	563.8	244.9	54.8	1.000032
57000.0	84.6	-63.7			140.7	563.8	240.8	44.9	1.000031
57500.0	82.5	-63.8			137.3	563.7	249.6	35.1	1.000031
58000.0	80.5	-63.8			134.0	563.6	251.5	25.9	1.000030
58500.0	78.5	-63.9			130.7	563.5	254.9	16.8	1.000029
59000.0	76.6	-65.1			126.2	562.0	255.6	11.1	1.000029
59500.0	74.7	-66.3			125.8	560.3	243.9	11.6	1.000028
60000.0	72.8	-67.5			123.4	558.6	233.5	12.6	1.000027
60500.0	71.0	-68.8			121.1	556.9	229.4	16.3	1.000027
61000.0	69.3	-69.5			118.5	555.9	229.6	22.2	1.000026
61500.0	67.5	-69.6			115.6	555.9	230.0	28.2	1.000026
62000.0	65.8	-69.6			112.7	555.8	232.2	31.2	1.000025
62500.0	64.2	-69.7			109.9	555.7	234.9	33.0	1.000024
63000.0	62.6	-69.7			107.2	555.7	237.6	34.5	1.000024
63500.0	61.0	-69.8			104.5	555.6	241.2	34.5	1.000023

STATION ALTITUDE 4010.40 FEET MSL
11 DEC. 79 1532 HRS MST
ASCENSION NO. 18

UPPER AIR DATA
3450220018
NW 30

GEODETIC COORDINATES
32.66497 LAT DEG
106.49714 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
64000.0	59.5	-69.8			101.9	555.5	244.8	34.7	1.000023
64500.0	58.0	-69.9			99.4	555.5	247.4	37.6	1.000022
65000.0	56.5	-69.4			96.7	556.1	249.5	40.7	1.000022
65500.0	55.1	-66.8			93.1	559.7	251.5	42.6	1.000021
66000.0	53.8	-64.1			89.6	563.2	253.5	44.1	1.000020
66500.0	52.5	-62.5			86.7	565.7			1.000019
67000.0	51.2	-61.0			84.1	567.5			1.000019

STATION ALTITUDE 4010.40 FEET MSL
11 DEC. 79 1532 HRS MST
ASCENSION NO. 18

MANDATORY LEVELS
3450220018
NW 30

GEODETIC COORDINATES
32.86497 LAT DEG
106.49714 LON DEG

TABLE 6

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS
850.0	4743.	18.0	1.1	32.	233.1	12.9
800.0	6425.	12.0	-2.0	38.	215.2	13.7
750.0	8181.	6.7	-5.1	43.	204.8	11.3
700.0	10022.	1.6	-12.9	33.	229.7	16.3
650.0	11967.	-2.4	-16.2	34.	251.7	26.0
600.0	14034.	-6.8	-16.7	45.	253.9	29.5
550.0	16242.	-11.9	-19.0	55.	243.4	29.5
500.0	18617.	-15.6	-24.3	47.	236.7	43.7
450.0	21201.	-20.3	-20.4	99.	237.2	49.9
400.0	24026.	-27.2	-27.3	99.	239.9	50.9
350.0	27137.	-34.7	-39.3	63.	227.4	57.8
300.0	30602.	-43.6	-47.1	68.	230.8	62.9
250.0	34537.	-52.5			232.1	83.8
200.0	39259.	-53.4			234.5	89.8
175.0	42065.	-55.2			236.8	92.7
150.0	45275.	-57.9			241.3	73.9
125.0	48982.	-64.8			248.6	64.5
100.0	53442.	-63.4			248.6	52.2
80.0	57935.	-63.9			252.0	24.2
70.0	60590.	-69.5			229.7	19.4
60.0	63605.	-69.8			243.3	34.6
50.0	67239.	-59.7				